



PATENT
Customer Number 22,852
Attorney Docket No. 06542.0037

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re of:)
Shaw Jong WANG et al.)
)
U.S. Patent No.: 6,561,671 B2)
)
Serial No.: 09/864,151)
) Group Art Unit: 2875
Filed: May 25, 2001)
) Examiner: Guiyoung LEE
For: CASE WITH VIBRATION-)
ACTIVATED LIGHT EMITTING) Confirmation No: 1452
INDICATION APPARATUS)

Assistant Commissioner for Patents
Box Issue Fee
Washington, DC 20231

Sir:

RESPONSE TO NOTICE UNDER 37 CFR 1.251 - PATENT

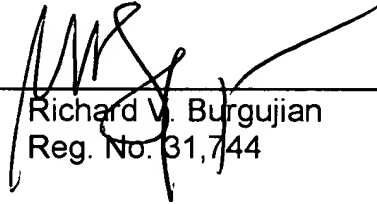
We respond to the Notice Under 37 CFR 1.251 - Patent. We enclose a copy of our record of all correspondence to and from the PTO for the patent identified above, as well as a list of such correspondence in chronological order. To the best of our knowledge, this submission constitutes a complete and accurate copy.

If you have any questions or need anything further, please contact us. Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: 8/25/04

By: 
Richard V. Burgujian
Reg. No. 31,744



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

In re Patent No.: 6,561,671 B2

Patentee: Shaw Jong WANG et al.

Patent Date: May 13, 2003

Application No.: 09/864,151

Filing Date: May 25, 2001

Direct to: Mail Stop RECONSTRUCTION
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

NOTICE UNDER 37 CFR 1.251 - Patent

Statement (check the appropriate box):

☒ The copy submitted with this reply is a complete and accurate copy of applicant's record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and applicant for the above-identified application that is not among applicant's records.

☐ The copy of the paper(s) listed in the notice under 37 CFR 1.251 is/are a complete and accurate copy of applicant's record of such paper(s).

☐ The papers produced by applicant are applicant's complete record of all of the correspondence between the Office and applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and the applicant for the above-identified application that is not among applicant's records.

☐ Applicant does not possess any record of the correspondence between the Office and the applicant for the above-identified application.

8/26/04
Date

[Signature]
Signature
Richard V. Burgujian
Typed or printed name
Ref #31,744

A copy of this notice should be returned with the reply.

U.S. Patent No.: 6,561,671 B2

U.S. Patent Application Serial No.: 09/864,151

Title: CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING
INDICATION APPARATUS

Filed: May 25, 2001

Applicants: Shaw-Jong WANG et al.

- | | | |
|-----|---|----------|
| 1. | Application (Transmittal Letter, Specification, Drawings, Declaration
and Assignment) | 05/25/01 |
| 2. | Official Filing Receipt | 07/24/01 |
| 3. | Notice of Recordation | 08/11/01 |
| 4. | Claim for Priority | 03/04/02 |
| 5. | Office Action | 03/25/02 |
| 6. | Amendment | 06/25/02 |
| 7. | Notice of Publication | 07/05/02 |
| 8. | Notice of Allowance | 01/07/03 |
| 9. | Payment of Issue Fee(Submission of formal drawings) | 03/18/03 |
| 10. | Issue Notification | 04/24/03 |
| 11. | Letters Patent | 05/13/03 |
| 12. | Notice Under 37 CFR 1.251-Patent | 03/25/04 |





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20221
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/13/2003	6561671	06542.0037	1452

22852 7590 04/24/2003

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER
LLP
1300 I STREET, NW
WASHINGTON, DC 20005

ISSUE NOTIFICATION

RECEIVED

The projected patent number and issue date are specified above.

MAY 01 2003

FINNEGAN, HENDERSON, FARABOW,
GARRETT AND DUNNER, LLP

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The patent term adjustment is 0 day(s), and will be printed on the front page of the patent.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (<http://pair.uspto.gov>)

APPLICANT(S):

Shaw-Jong Wang, Hsinchu, TAIWAN;
Joseph Shen, Taipei, TAIWAN;
Chien-Hua Wu, Miao Li Hsien, TAIWAN;
Charen Yu, Taipei, TAIWAN;

[Handwritten signature]

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Box ISSUE FEE
Commissioner for Patents
Washington, D.C. 20231
Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)
 22852 7590 01/07/2003

FINNEGAN, HENDERSON, FARABOW, GARRETT &
 DUNNER LLP
 1300 I STREET, NW
 WASHINGTON, DC 20006

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037	1452

TITLE OF INVENTION: CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	04/07/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, GUIYOUNG	2875	362-154000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

- 1 FINNEGAN, HENDERSON,
 2 FARABOW, GARRETT,
 3 & DUNNER, L.L.P.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

RITEK CORPORATION

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TAIWAN, REPUBLIC OF CHINA

Please check the appropriate assignee category or categories (will not be printed on the patent)

☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
☒ Publication Fee
☒ Advance Order - # of Copies 10 (\$30.00)

4b. Payment of Fee(s):

- ☒ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 06-0916 (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

Richard V. Burgin, Reg. No. 31,744 3/18/03

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shaw-Jong WANG et al.

Serial No: 09/864,151

Filed: May 25, 2001

For: CASE WITH VIBRATION-
ACTIVATED LIGHT EMITTING
INDICATION APPARATUS

)
) **Notice of Allowance Dated:**
)
) **January 7, 2003**
)
) **Confirmation No: 1452**
)
) **Group Art Unit: 2875**
)
) **Examiner: Guiyoung LEE**

Assistant Commissioner for Patents
Washington, DC 20231

ATTN: BOX ISSUE FEE

Sir:

SUBMISSION OF CORRECTED FORMAL DRAWINGS

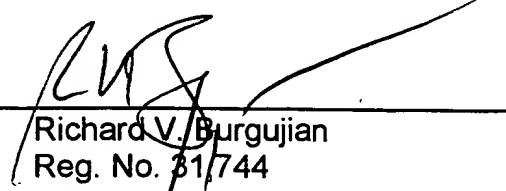
Filed herewith is one (1) sheet of corrected formal patent drawings containing two (2) figures. It is requested that these drawings be made of official record in the above-identified patent application.

If there are any fees due in connection with the filing of these drawings, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: March 18, 2003

By: 
Richard V. Burgujian
Reg. No. 31,744

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22852 7590 01/07/2003

FINNEGAN, HENDERSON, FARABOW, GARRETT &
DUNNER LLP
1300 I STREET, NW
WASHINGTON, DC 20006

RECEIVED

JAN 10 2003

FINNEGAN, HENDERSON,
FARABOW, GARRETT & DUNNER, LLP

EXAMINER

LEE, GUIYOUNG

ART UNIT CLASS-SUBCLASS

2875

362-154000

DATE MAILED: 01/07/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037	1452

TITLE OF INVENTION: CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	04/07/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037	1452
22852	7590	01/07/2003	EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20006			LEE, GUIYOUNG	
			ART UNIT	PAPER NUMBER
			2875	
DATE MAILED: 01/07/2003				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (<http://pair.uspto.gov>)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037	1452
22852	7590	01/07/2003	EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20006 UNITED STATES			LEE, GUIYOUNG	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 01/07/2003

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: <http://www.uspto.gov/main/howtofees.htm>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

09/864,151

Examiner

Guiyoung Lee

Applicant(s)

WANG ET AL.

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed 25 June 2002.
2. ☒ The allowed claim(s) is/are 1-9 and 11.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION

1. Receipt is acknowledged of the Amendment filed 25 June, 2002.
2. In response to the Applicant's request for clarification of the status of claims 5 and 7 in the last office Action, the Examiner confirms that claims 1-4 and 6-13 are rejected under 35 U.S.C. 102 (b) as being anticipated by Chien (USPT 5,836,671) and claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chien (USPT 5,836,671) in view of Chien (USPT 6,082,867).

Allowable Subject Matter

3. Claims 1-9 and 11 are allowed.
4. The following is an examiner's statement of reasons for allowance: With regard to independent claim 1, although the prior art of record, Chien (USPT 5,836,671), teaches a backpack or waistpack with a vibration-activated light emitting apparatus, he fails to teach a case having a cover and a container; and a vibration-activated light emitting indication apparatus on the cover of the case, including an indicator plate, which is transparent and has a pattern; a power supply; and an electroluminescent laminate situated beneath the indicator plate; a control unit for connecting the power supply to the electroluminescent laminate when a vibration of the case is sensed, as set forth in the claim. Claims 2-9 and 11 depend from claim 1. Therefore, claims 1-9 and 11 are patentable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Guiyoung Lee** whose telephone number is **(703) 308-8567**. The examiner can normally be reached between the hours of 8:00 AM to 3:30PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea, can be reached on (703) 305-4939. The fax phone number for this Group is (703)872-9318 (before final rejection), (703)872-9319 (after final rejection). The Right Fax phone number for the examiner is (703)746-4766.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [**Guiyoung.lee@uspto.gov**].

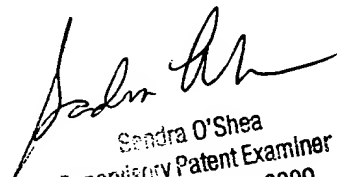
All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

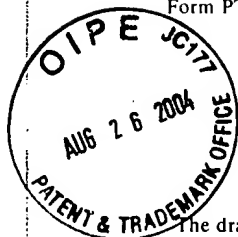
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

GYL

GAU2875

December/31/2002


Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800



NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 05/25/01 are:

- A. ☐ approved by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink. Color.

Color drawings are not acceptable until petition is granted.

Fig(s) _____

Pencil and non black ink not permitted. Fig(s) _____

2. PHOTOGRAPHS. 37 CFR 1.84(b)

1 full-tone set is required. Fig(s) _____

Photographs may not be mounted. 37 CFR 1.84(e)

Poor quality (half-tone). Fig(s) _____

3. TYPE OF PAPER. 37 CFR 1.84(e)

Paper not flexible, strong, white, and durable.

Fig(s) _____

Erasures, alterations, overwritings, interlineations,

folds, copy machine marks not accepted. Fig(s) _____

Mylar, velum paper is not acceptable (too thin).

Fig(s) _____

4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:

21.0 cm by 29.7 cm (DIN size A4)

21.6 cm by 27.9 cm (8 1/2 x 11 inches)

All drawing sheets not the same size.

Sheet(s) _____

Drawings sheets not an acceptable size. Fig(s) _____

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm

SIZE: A4 Size

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

SIZE: 8 1/2 x 11

Margins not acceptable. Fig(s) _____

Top (T) Left (L)

Right (R) Bottom (B)

6. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

Brackets needed to show figure as one entity.

Fig(s) _____

Views not labeled separately or properly.

Fig(s) _____

Enlarged view not labeled separately or properly.

Fig(s) _____

7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)

Hatching not indicated for sectional portions of an object.

Fig(s) _____

Sectional designation should be noted with Arabic or

Roman numbers. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. SCALE. 37 CFR 1.84(k)

Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.

Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS.

37 CFR 1.84(i)

Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).

Fig(s) 1-2

11. SHADING. 37 CFR 1.84(m)

Solid black areas pale. Fig(s) _____

Solid black shading not permitted. Fig(s) _____

Shade lines, pale, rough and blurred. Fig(s) _____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.

37 CFR 1.84(p)

Numbers and reference characters not plain and legible.

Fig(s) _____

Figure legends are poor. Fig(s) _____

Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)

Fig(s) _____

English alphabet not used. 37 CFR 1.84(p)(2)

Fig(s) _____

Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)

Fig(s) _____

13. LEAD LINES. 37 CFR 1.84(q)

Lead lines cross each other. Fig(s) _____

Lead lines missing. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w)

Corrections not made from prior PTO-948 dated _____

17. DESIGN DRAWINGS. 37 CFR 1.152

Surface shading shown not appropriate. Fig(s) _____

Solid black shading not used for color contrast.

Fig(s) _____

COMMENTS

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FACSIMILE TRANSMITTAL

TO

Name: Ex. Guiyoung Lee
Firm: U.S. Patent and Trademark Office
Fax No.: 703-746-4766

FROM

Name: Richard Burgujian
Phone No.: (202) 4024
Fax # Verified by: R. Burgujian
MD 920

Phone No.:

Pages (incl. this): 22

Date: Dec. 10, 2002

Our File No.: 06542.0037

Subject: U.S. Patent Application 09/864,151

Confirmation Copy to Follow: N

Message:

Ex. Lee:

Per our telephone conversation today, I am faxing to you a copy of our Amendment filed 6/25/02 in the above-referenced application, and the stamped postcard.

Sincerely,



If there is a problem with this transmission, notify fax room at (202) 408-4174 or the sender at the number above.

This facsimile is intended only for the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If you have received this facsimile in error, please notify the sender immediately by telephone (collect), and return the original message by first-class mail to the above address.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Shaw-Jong WANG et al.) Group Art Unit: 2875
)
Application No.: 09/864,151) Examiner: G. Lee
)
Filed: May 25, 2001)
)
For: CASE WITH VIBRATION-ACTIVATED)
LIGHT EMITTING INDICATION)
APPARATUS (as amended hereby))

Commissioner for Patents
Washington, DC 20231

Sir:

TRANSMITTAL LETTER

Enclosed is a reply to the Office Action of March 25, 2002. The claims are calculated below:

	Claims Remaining After Amendment		Highest Number Previously Paid	Present Extra	Rate	Additional Fee
Total	10	-	20	0	x \$ 18	\$ 0
Indep.	1	-	3	0	x \$ 84	0
<input type="checkbox"/> First Presentation of Multiple Dep. Claim(s)					+\$280	0
Subtotal						\$ 0
Reduction by 1/2 if small entity						- 0
TOTAL						\$ 0

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

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Dated: June 25, 2002

By: *Richard V. Burgujian* # 24,014
for Richard V. Burgujian
Reg. No. 31,744



PATENT
Customer No. 22,852
Attorney Docket No. 06542.0037

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Shaw-Jong WANG et al.) Group Art Unit: 2875
)
Application No.: 09/864,151) Examiner: G. Lee
)
Filed: May 25, 2001)
)
For: CASE WITH VIBRATION-ACTIVATED)
LIGHT EMITTING INDICATION)
APPARATUS (as amended hereby))

Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT

In reply to the Office Action dated March 25, 2002, the non-fee period for reply extending through June 25, 2002, please amend the application as follows:

AMENDMENTS TO THE TITLE

Please replace the title with the following:

-- CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION
APPARATUS --

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 1, line 5 and extending to page 1, line 8 with the following amended paragraph:

The present invention relates to a case with a light emitting indication apparatus, and in particular, to a vibration-activated indication apparatus, which is that located on the surfaces of packages or any kind of cases and emits light when touched or shaken by a user.

Please replace the paragraph beginning at page 1, line 10 and extending to page 1, line 12 with the following amended paragraph:

Currently, the cases for containing goods can just be beautified with a logo or a figure on their surfaces or shape. Such superficial beautification of the surface and shape of the case turns out not quite attractive.

Please replace the paragraph beginning at page 1, line 22 and extending to page 1, line 25 with the following amended paragraph:

An object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus, which can be activated by vibrations caused by external pressing or shaking to the case and then shows the patterns on an indicator plate.

Please replace the paragraph beginning at page 1, line 26 and extending to page 2, line 2 with the following amended paragraph:

A further object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus that can enhance sound and image effects of the decorated patterns on the surface of a package or any kind of cases.

Please replace the text beginning at page 2, line 3 and extending to page 2, line 14 with the following amended paragraph:

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To achieve the above purposes, the case with a vibration-activated light emitting indication apparatus of the present invention, comprises a case having a cover and a container; a vibration-activated light emitting indication apparatus, which is mounted on a surface of the case, including; an indicator plate, which is transparent and has a pattern; a power supply; an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibrations of the case.

Please replace the text beginning at page 2, line 22 and extending to page 3, line 21 with the following amended text:

BRIEF DESCRIPTION OF THE FIGURES

The present invention will be described in accordance with the accompanying figures, wherein:

Fig. 1 is a first embodiment of a case with a vibration-activated light emitting indication apparatus of the present invention;

Fig. 2 is a second embodiment of a case with a vibration-activated light emitting indication apparatus of the present invention; and

Fig. 3 is a block diagram of a case with a vibration-activated light emitting indication apparatus of the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 shows the first embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. As shown in Fig. 1, the indication apparatus of the present invention is located on a surface of a DVD case 10, and it can be activated by the vibration caused by external act of pressing or shaking on the DVD case 10. On the surface of the DVD case 10, the pattern on an indicator plate 11 can be highlighted by a light that is emitted from an electroluminescent laminate. The indicator plate 11 may be made out of a transparent material with patterns intended to be shown thereon. The present invention can also have a variety of the indicator plates changing the light emitting essences of electroluminescent laminate, such as single flicking, multiple flicking, flicking frequency, different colors, and so on.

Fig. 2 shows a second embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. An indicator plate 21 is mounted on any surfaces on a DVD case 20, if desired.

Please replace the paragraph beginning at page 4, line 3 and extending to page 4, line 9 with the following amended paragraph:

Fig. 3 is a block diagram of the case with a vibration-activated light emitting indication apparatus of the present invention. A power supply, which includes a driving circuit and batteries, can power to electrodes of electroluminescent laminate to emit a light. Moreover, the power supply may be designed for several different power supply modes, such as consecutive power supply or intermittent power supply, to obtain different effects, such as flicking of the indicator plate.

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Please replace the paragraph beginning at page 4, line 26 and extending to page 4, line 30 with the following amended paragraph:

Given the above, the case with a vibration-activated light emitting apparatus can be obtained by combining a power supply and a main structure, which includes the case, the indicator plate, the vibration sensor IC, the electroluminescent laminate, and the inverter. The case can be a package for a variety of goods, such as a DVD case, a watch case, a jewelry box, and a stationery case. Furthermore, the indicator plate can be mounted on any arbitrary surfaces of the case, such as the inside or the outside of the case. The image effect may be exhibited together with a musical effect. Also, the consecutive multicolored flicking of the electroluminescent laminate may further highlight the patterns of animals or cartoon, logos, characters or any other features intended to be shown. The variety of changes derived from similar ideas is included in the present invention.

AMENDMENTS TO THE CLAIMS

Please cancel claims 10, 12 and 13 without prejudice or disclaimer of the subject matter thereof.

Please amend claims 1-9 and 11 as follows:

1. (Amended) A case with a vibration-activated light emitting indication apparatus, comprising,

a case having a cover and a container; and

a vibration-activated light emitting indication apparatus mounted on the cover of the case, including;

- (a) an indicator plate, which is transparent and has a pattern;
- (b) a power supply;
- (c) an electroluminescent laminate situated beneath the indicator plate and being capable of emitting a light as powered by the power supply; and
- (d) a control unit for connecting the power supply to the electroluminescent laminate when a vibration of the case is sensed.

2. (Amended) The case according to Claim 1, wherein the electroluminescent laminate is a laminate of single color or multi color.

3. (Amended) The case according to Claim 1, wherein the electroluminescent laminate emits the light continuously or emits the light intermittently.

4. (Amended) The case according to Claim 1, wherein the control unit further comprises a vibration sensor IC and an inverter.

5. (Amended) The case according to Claim 1, wherein the control unit further comprises a music IC to produce music.

6. (Amended) The case according to Claim 1, wherein the power supply is a battery.

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7. (Amended) The case according to Claim 1, wherein a predetermine number of clock pulses after the electroluminescent laminate emits the light, the control unit disconnects the power supply from the electroluminescent laminate.

8. (Amended) The case according to Claim 1, wherein the pattern is a logo.

9. (Amended) The case according to Claim 1, wherein the pattern is a pattern of at least one of an animal or a cartoon character.

11. (Amended) The apparatus according to Claim 1, wherein the case is a DVD case or CD case.

AMENDMENTS TO THE ABSTRACT

Please amend the Abstract as follows:

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned case can be a container with a cover, such as a DVD case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the

electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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REMARKS

In reply to the Office Action dated March 25, 2002, the non-fee period for reply extending through June 25, 2002, claims 1-9 and 11 have been amended and claims 10, 12, and 13 canceled without prejudice or disclaimer of the subject matter thereof. As a result, claims 1-9 and 11 are currently pending. Please consider the following remarks.

Applicants appreciate the courtesy and diligence of the Examiner in responding to the Applicants' request for clarification of the status of claims 5 and 7 in the current Office Action. In a telephone conversation on June 6, 2002, the Examiner indicated that although the detailed action states that claim 7 was rejected under 35 U.S.C. § 103, the Examiner intended for claim 5 to be rejected under § 103 and for claim 7 to be rejected under § 102. As a result, Applicants understand the Examiner to have rejected claims 1-4 and 6-13 under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 5,836,671 to Chien ("Chien '671") and claim 5 under 35 U.S.C. § 103(a) as unpatentable over Chien '671 in view of U.S. Patent No. 6,082,867 to Chien ("Chien '867"). Applicants request that the Examiner acknowledge the verbal clarification of the disposition of claims 5 and 7 in a subsequent Office Action or other written communication so that the written record of this case is complete. The rejections are respectfully traversed for the following reasons.

To anticipate claims 1-4, 6-9, and 11 under 35 U.S.C. § 102(b), Chien '671 must disclose each and every feature recited in those claims. Chien '671, however, fails to disclose, at least, a case with a vibration-activated light emitting indication apparatus, comprising a case having a cover and a container; and a vibration-activated light emitting indication apparatus mounted on the cover of the case, as recited in independent claim 1.

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Chien '671 discloses an electroluminescent light strip attached on a backpack or a waistpack. Though the Examiner asserts that Chien '671 teaches a "case [that] is a package box, a DVD box, or bag or a toy case," (Office Action, page 2) the portion cited by the Examiner (Col. 2, lines 25-31) describe the device as a backpack, waistpack, or "other bag or case designed to be suspended from the body of the wearer by a strap." (Chien '671, Col. 2, lines 25-31) As such, Chien '671 fails to disclose, at least, a case having a cover and a container and a vibration-activated light emitting indication apparatus mounted on the cover of the case as recited by independent claim 1. Therefore, because Chien '671 fails to disclose at least these features of independent claim 1, the § 102(b) rejection of that claim should be withdrawn and the claim allowed. Moreover, the rejection of claims 2-4, 6-9, and 11 are allowable at least by virtue of their dependence on allowable independent claim 1.

The Examiner rejected claim 5 under 35 U.S.C. § 103(a) as being unpatentable over Chien '671 in view of Chien '867. This rejection is respectfully traversed, because a *prima facie* case of obviousness has not been made by the Examiner.

To establish a *prima facie* case of obviousness under 35 U.S.C. § 103(a), each of three requirements must be met. First, the reference or references, taken alone or in combination, must teach or suggest each and every element recited in the claims. See M.P.E.P. § 2143.03 (8th ed. 2001). Second, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to combine the references in a manner resulting in the claimed invention. Third, a reasonable expectation of success must exist. Moreover, each of these requirements must "be found in the prior art, and not be based on applicant's disclosure." M.P.E.P. § 2143 (8th ed. 2001).

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In this case, though the Examiner acknowledges that Chien '671 does not disclose a music IC to produce music, as recited in claim 5, the Examiner alleges that Chien '867 both teaches a music IC to produce music and provides motivation to combine it with the teachings of Chien '671. In doing so, the Examiner relies on the statement in Chien '867 that "[t]he changing color features of the three-dimensional electro-luminescent lighting element can be utilized in this application by making the color change responsive to sound, hear [sic], humidity, pressure or weight, music, or any other desired condition." (Chien '867, Col. 3, lines 40-45)

Chien '867, including the passage cited by the Examiner, fails to teach or suggest at least a music IC to produce music as recited by claim 5. The passage cited by the Examiner describes the possibility that the device can be responsive to sound. In no way does being *responsive* to sound teach or suggest a music IC to produce sound as recited in claim 5. Therefore, the combination of Chien '671 and Chien '867 fails to teach or suggest each and every element recited by claim 5. As a result, the rejection of claim 5 should be withdrawn and the claim allowed.

The amendments to the title, specification, claims, and abstract have been made to clarify certain aspects of the invention. All find support in the original specification. For example, page 2, line 15 of the specification as filed states that the vibration-activated light emitting indication apparatus "can be mounted on any type of cases." (Spec., Page 2, line 15) As a result, this amendment adds no new matter.

In view of the foregoing, Applicant respectfully requests the reconsideration and reexamination of this application and the timely allowance of the pending claims.

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Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: June 25, 2002

By: Richard V. Burgujian Reg. # 24,014
for Reg. No. 31,744

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ABSTRACT

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned case can be a container with a cover, such as a DVD case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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APPENDIX TO AMENDMENT
VERSION WITH MARKINGS TO SHOW CHANGES MADE

AMENDMENTS TO THE TITLE

The title is amended as follows:

CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION
APPARATUS[VIBRATION ACTIVATED LIGHT EMITTING INDICATION APPARATUS]

AMENDMENTS TO THE SPECIFICATION

On page 1, lines 5-8 are amended as follows:

The present invention relates to a case with a light emitting indication apparatus, and in particular, to a vibration-activated indication apparatus, which is that located on the surfaces of packages or any kind of cases and emits light when [as being] touched or [shacked] shaken by a user.

On page 1, lines 10-12 are amended as follows:

Currently, the cases for containing goods can just be beautified with a logo or a figure on their surfaces or shape [on their surface and shape or with logo]. Such superficial beautification of the surface and shape of the case turns out not quite attractive.

On page 1, lines 22-25 are amended as follows:

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An object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus, which can be activated by vibrations caused by external pressing or shaking to the [apparatus] case and then shows the patterns on an indicator plate.

On page 1, lines 26-27 and continuing on page 2, lines 1-2, lines are amended as follows:

A further object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus that can enhance sound and image effects of the decorated patterns on the surface of a package or any kind of cases.

On page 2, lines 3-14 are amended as follows:

To achieve the above purposes, the case with a vibration-activated light emitting indication apparatus of the present invention, [which is mounted on a case,] comprises[:] a case having a cover and a container; a vibration-activated light emitting indication apparatus, which is mounted on a surface of the case, including; an indicator plate, which is transparent and has a pattern [thereon]; a power supply; an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the [vibration caused by external pressing or shaking on the vibration-activated light emitting indication apparatus] vibrations of the case.

On page 2, lines 23-26 are amended as follows:

BRIEF DESCRIPTION OF THE [PATTERNS] FIGURES

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The present invention will be described in [accidence] accordance with the accompanying figures, wherein:

Fig. 1 is a first embodiment of [the] a case with a vibration-activated light emitting indication apparatus of the present invention;

On page 3, lines 1-21 are amended as follows:

Fig. 2 is a second embodiment of [the] a case with a vibration-activated light emitting indication apparatus of the present invention; and

Fig. 3 is a block diagram of [the] a case with a vibration-activated light emitting indication apparatus of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 shows the first embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. As shown in Fig. 1, the indication apparatus of the present invention is located on a surface of a DVD [box 10] case 10, and it can be activated by the vibration caused by external act of pressing or shaking on the DVD [box 10] case 10. On the surface of the DVD [box 10] case 10, the pattern on an indicator plate 11 can be highlighted by a light that is emitted from an electroluminescent laminate. The indicator plate 11 may be made out of a transparent material with patterns intended to be shown thereon. The present invention can also have a variety of the indicator plates changing the light emitting essences of electroluminescent laminate, such as single flicking, multiple flicking, flicking frequency, different colors, and so on.

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Fig. 2 shows a second embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. An indicator plate 21 is mounted on any surfaces on a DVD [box 20] case 20, if desired.

On page 4, lines 3-9 are amended as follows:

Fig. 3 is a block diagram of the case with a vibration-activated light emitting indication apparatus of the present invention. A power supply, which includes a driving circuit and batteries, can power to electrodes of electroluminescent laminate to emit a light. Moreover, the power supply may be designed for several different power supply modes, such as consecutive power supply or intermittent power supply, to obtain different effects, such as flicking of the indicator plate.

Beginning on page 4, lines 26-30 and continuing on page 5, lines 1-9, please amend the text as follows:

Given the above, [a] the case with a vibration-activated light emitting apparatus can be obtained by combining a power supply and a main structure, which includes the case, the indicator plate, the vibration sensor IC, the electroluminescent laminate, and the inverter. The case can be a package for a variety of goods, such as a DVD [box] case, a watch case, a jewelry box, and a stationery case. Furthermore, the indicator plate can be mounted on any arbitrary surfaces of the case, such as the inside or the outside of the case. The image effect may be exhibited together with a musical effect. Also, the consecutive multicolored flicking of the electroluminescent laminate may further highlight the patterns of animals or cartoon, logos,

characters or any other features intended to be shown. The variety of changes derived from similar ideas is included in the present invention.

AMENDMENTS TO THE CLAIMS

1. [A vibration-activated light emitting indication apparatus, which is mounted on a surface of a case to increase the attractiveness of the case, comprising:

an indicator plate, which is transparent and has a pattern;

a power supply;

an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and

a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibration of the apparatus.] A case with a vibration-activated light emitting indication apparatus, comprising,

a case having a cover and a container; and

a vibration-activated light emitting indication apparatus mounted on the cover of the case,

including;

(a) an indicator plate, which is transparent and has a pattern;

(b) a power supply;

(c) an electroluminescent laminate situated beneath the indicator plate and being capable of emitting a light as powered by the power supply; and

(d) a control unit for connecting the power supply to the electroluminescent laminate when a vibration of the case is sensed.

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2. The [apparatus] case according to Claim 1, wherein the electroluminescent laminate is a laminate of single color or multi color.

3. The [apparatus] case according to Claim 1, wherein the electroluminescent laminate emits the light [at a time] continuously or emits the light intermittently.

4. The [apparatus] case according to Claim 1, wherein the control unit further comprises a vibration sensor IC and an inverter.

5. The [apparatus] case according to Claim 1, wherein the control unit further comprises a music IC to produce [a] music.

6. The [apparatus] case according to Claim 1, wherein the power supply is a battery.

7. The [apparatus] case according to Claim 1, wherein [after] a predetermined number of [plural] clock pulses [when] after the electroluminescent laminate emits the light, the control unit disconnects the power supply from the electroluminescent laminate.

8. The [apparatus] case according to Claim 1, wherein the pattern is a logo.

9. The [apparatus] case according to Claim 1, wherein the pattern is a pattern of at least one of an animal or a cartoon character.

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11. The apparatus according to Claim 1, wherein the case is a DVD [box] case or CD case.

AMENDMENTS TO THE ABSTRACT

The Abstract is amended as follows:

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, [: a case or a carrier; an indicator plate,] which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the [apparatus] case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned [apparatus] case can be a container with a cover, [may be mounted on any case,] such as a DVD [box] case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037

CONFIRMATION NO. 1452

22852
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RECEIVED

Title: Vibration-activated light emitting indication apparatus

Publication No. US-2002-0085375-A1
Publication Date: 07/04/2002

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP

Date Mailed: 07/05/2002

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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Attorney RUBIN
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9/4/12
By [Signature]
7-15-04
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
 Shaw-Jong WANG et al.) Group Art Unit: 2875
)
 Application No.: 09/864,151) Examiner: G. Lee
)
 Filed: May 25, 2001)
)
 For: CASE WITH VIBRATION-ACTIVATED)
 LIGHT EMITTING INDICATION)
 APPARATUS (as amended hereby))

Commissioner for Patents
Washington, DC 20231

Sir:

TRANSMITTAL LETTER

Enclosed is a reply to the Office Action of March 25, 2002. The claims are calculated below:

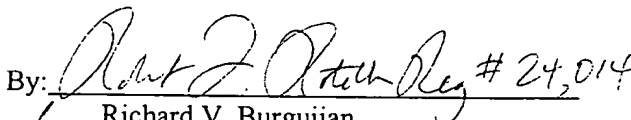
	Claims Remaining After Amendment		Highest Number Previously Paid	Present Extra	Rate	Additional Fee
Total	10	-	20	0	x \$ 18	\$ 0
Indep.	1	-	3	0	x \$ 84	0
<input type="checkbox"/> First Presentation of Multiple Dep. Claim(s)					+\$280	0
Subtotal						\$ 0
Reduction by 1/2 if small entity						- 0
TOTAL						\$ 0

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

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Dated: June 25, 2002

By:  # 24,014
for Richard V. Burgujian
Reg. No. 31,744



PATENT
Customer No. 22,852
Attorney Docket No. 06542.0037

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Shaw-Jong WANG et al.) Group Art Unit: 2875
Application No.: 09/864,151) Examiner: G. Lee
Filed: May 25, 2001)
For: CASE WITH VIBRATION-ACTIVATED)
LIGHT EMITTING INDICATION)
APPARATUS (as amended hereby))

Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT

In reply to the Office Action dated March 25, 2002, the non-fee period for reply extending through June 25, 2002, please amend the application as follows:

AMENDMENTS TO THE TITLE

Please replace the title with the following:

-- CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION
APPARATUS --

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 1, line 5 and extending to page 1, line 8 with the following amended paragraph:

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The present invention relates to a case with a light emitting indication apparatus, and in particular, to a vibration-activated indication apparatus, which is that located on the surfaces of packages or any kind of cases and emits light when touched or shaken by a user.

Please replace the paragraph beginning at page 1, line 10 and extending to page 1, line 12 with the following amended paragraph:

Currently, the cases for containing goods can just be beautified with a logo or a figure on their surfaces or shape. Such superficial beautification of the surface and shape of the case turns out not quite attractive.

Please replace the paragraph beginning at page 1, line 22 and extending to page 1, line 25 with the following amended paragraph:

An object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus, which can be activated by vibrations caused by external pressing or shaking to the case and then shows the patterns on an indicator plate.

Please replace the paragraph beginning at page 1, line 26 and extending to page 2, line 2 with the following amended paragraph:

A further object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus that can enhance sound and image effects of the decorated patterns on the surface of a package or any kind of cases.

Please replace the text beginning at page 2, line 3 and extending to page 2, line 14 with the following amended paragraph:

To achieve the above purposes, the case with a vibration-activated light emitting indication apparatus of the present invention, comprises a case having a cover and a container; a vibration-activated light emitting indication apparatus, which is mounted on a surface of the case, including; an indicator plate, which is transparent and has a pattern; a power supply; an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibrations of the case.

Please replace the text beginning at page 2, line 22 and extending to page 3, line 21 with the following amended text:

BRIEF DESCRIPTION OF THE FIGURES

The present invention will be described in accordance with the accompanying figures, wherein:

Fig. 1 is a first embodiment of a case with a vibration-activated light emitting indication apparatus of the present invention;

Fig. 2 is a second embodiment of a case with a vibration-activated light emitting indication apparatus of the present invention; and

Fig. 3 is a block diagram of a case with a vibration-activated light emitting indication apparatus of the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 shows the first embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. As shown in Fig. 1, the indication apparatus of the present invention is located on a surface of a DVD case 10, and it can be activated by the vibration caused by external act of pressing or shaking on the DVD case 10. On the surface of the DVD case 10, the pattern on an indicator plate 11 can be highlighted by a light that is emitted from an electroluminescent laminate. The indicator plate 11 may be made out of a transparent material with patterns intended to be shown thereon. The present invention can also have a variety of the indicator plates changing the light emitting essences of electroluminescent laminate, such as single flicking, multiple flicking, flicking frequency, different colors, and so on.

Fig. 2 shows a second embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. An indicator plate 21 is mounted on any surfaces on a DVD case 20, if desired.

Please replace the paragraph beginning at page 4, line 3 and extending to page 4, line 9 with the following amended paragraph:

Fig. 3 is a block diagram of the case with a vibration-activated light emitting indication apparatus of the present invention. A power supply, which includes a driving circuit and batteries, can power to electrodes of electroluminescent laminate to emit a light. Moreover, the power supply may be designed for several different power supply modes, such as consecutive power supply or intermittent power supply, to obtain different effects, such as flicking of the indicator plate.

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Please replace the paragraph beginning at page 4, line 26 and extending to page 4, line 30 with the following amended paragraph:

Given the above, the case with a vibration-activated light emitting apparatus can be obtained by combining a power supply and a main structure, which includes the case, the indicator plate, the vibration sensor IC, the electroluminescent laminate, and the inverter. The case can be a package for a variety of goods, such as a DVD case, a watch case, a jewelry box, and a stationery case. Furthermore, the indicator plate can be mounted on any arbitrary surfaces of the case, such as the inside or the outside of the case. The image effect may be exhibited together with a musical effect. Also, the consecutive multicolored flicking of the electroluminescent laminate may further highlight the patterns of animals or cartoon, logos, characters or any other features intended to be shown. The variety of changes derived from similar ideas is included in the present invention.

AMENDMENTS TO THE CLAIMS

Please cancel claims 10, 12 and 13 without prejudice or disclaimer of the subject matter thereof.

Please amend claims 1-9 and 11 as follows:

1. (Amended) A case with a vibration-activated light emitting indication apparatus, comprising,

a case having a cover and a container; and

a vibration-activated light emitting indication apparatus mounted on the cover of the case, including;

- (a) an indicator plate, which is transparent and has a pattern;
 - (b) a power supply;
 - (c) an electroluminescent laminate situated beneath the indicator plate and being capable of emitting a light as powered by the power supply; and
 - (d) a control unit for connecting the power supply to the electroluminescent laminate when a vibration of the case is sensed.
2. (Amended) The case according to Claim 1, wherein the electroluminescent laminate is a laminate of single color or multi color.
3. (Amended) The case according to Claim 1, wherein the electroluminescent laminate emits the light continuously or emits the light intermittently.
4. (Amended) The case according to Claim 1, wherein the control unit further comprises a vibration sensor IC and an inverter.
5. (Amended) The case according to Claim 1, wherein the control unit further comprises a music IC to produce music.
6. (Amended) The case according to Claim 1, wherein the power supply is a battery.

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7. (Amended) The case according to Claim 1, wherein a predetermine number of clock pulses after the electroluminescent laminate emits the light, the control unit disconnects the power supply from the electroluminescent laminate.

8. (Amended) The case according to Claim 1, wherein the pattern is a logo.

9. (Amended) The case according to Claim 1, wherein the pattern is a pattern of at least one of an animal or a cartoon character.

11. (Amended) The apparatus according to Claim 1, wherein the case is a DVD case or CD case.

AMENDMENTS TO THE ABSTRACT

Please amend the Abstract as follows:

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned case can be a container with a cover, such as a DVD case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the

electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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REMARKS

In reply to the Office Action dated March 25, 2002, the non-fee period for reply extending through June 25, 2002, claims 1-9 and 11 have been amended and claims 10, 12, and 13 canceled without prejudice or disclaimer of the subject matter thereof. As a result, claims 1-9 and 11 are currently pending. Please consider the following remarks.

Applicants appreciate the courtesy and diligence of the Examiner in responding to the Applicants' request for clarification of the status of claims 5 and 7 in the current Office Action. In a telephone conversation on June 6, 2002, the Examiner indicated that although the detailed action states that claim 7 was rejected under 35 U.S.C. § 103, the Examiner intended for claim 5 to be rejected under § 103 and for claim 7 to be rejected under § 102. As a result, Applicants understand the Examiner to have rejected claims 1-4 and 6-13 under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 5,836,671 to Chien ("Chien '671") and claim 5 under 35 U.S.C. § 103(a) as unpatentable over Chien '671 in view of U.S. Patent No. 6,082,867 to Chien ("Chien '867"). Applicants request that the Examiner acknowledge the verbal clarification of the disposition of claims 5 and 7 in a subsequent Office Action or other written communication so that the written record of this case is complete. The rejections are respectfully traversed for the following reasons.

To anticipate claims 1-4, 6-9, and 11 under 35 U.S.C. § 102(b), Chien '671 must disclose each and every feature recited in those claims. Chien '671, however, fails to disclose, at least, a case with a vibration-activated light emitting indication apparatus, comprising a case having a cover and a container; and a vibration-activated light emitting indication apparatus mounted on the cover of the case, as recited in independent claim 1.

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Chien '671 discloses an electroluminescent light strip attached on a backpack or a waistpack. Though the Examiner asserts that Chien '671 teaches a "case [that] is a package box, a DVD box, or bag or a toy case," (Office Action, page 2) the portion cited by the Examiner (Col. 2, lines 25-31) describe the device as a backpack, waistpack, or "other bag or case designed to be suspended from the body of the wearer by a strap." (Chien '671, Col. 2, lines 25-31) As such, Chien '671 fails to disclose, at least, a case having a cover and a container and a vibration-activated light emitting indication apparatus mounted on the cover of the case as recited by independent claim 1. Therefore, because Chien '671 fails to disclose at least these features of independent claim 1, the § 102(b) rejection of that claim should be withdrawn and the claim allowed. Moreover, the rejection of claims 2-4, 6-9, and 11 are allowable at least by virtue of their dependence on allowable independent claim 1.

The Examiner rejected claim 5 under 35 U.S.C. § 103(a) as being unpatentable over Chien '671 in view of Chien '867. This rejection is respectfully traversed, because a *prima facie* case of obviousness has not been made by the Examiner.

To establish a *prima facie* case of obviousness under 35 U.S.C. § 103(a), each of three requirements must be met. First, the reference or references, taken alone or in combination, must teach or suggest each and every element recited in the claims. *See* M.P.E.P. § 2143.03 (8th ed. 2001). Second, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to combine the references in a manner resulting in the claimed invention. Third, a reasonable expectation of success must exist. Moreover, each of these requirements must "be found in the prior art, and not be based on applicant's disclosure." M.P.E.P. § 2143 (8th ed. 2001).

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In this case, though the Examiner acknowledges that Chien '671 does not disclose a music IC to produce music, as recited in claim 5, the Examiner alleges that Chien '867 both teaches a music IC to produce music and provides motivation to combine it with the teachings of Chien '671. In doing so, the Examiner relies on the statement in Chien '867 that "[t]he changing color features of the three-dimensional electro-luminescent lighting element can be utilized in this application by making the color change responsive to sound, hear [sic], humidity, pressure or weight, music, or any other desired condition." (Chien '867, Col. 3, lines 40-45)

Chien '867, including the passage cited by the Examiner, fails to teach or suggest at least a music IC to produce music as recited by claim 5. The passage cited by the Examiner describes the possibility that the device can be responsive to sound. In no way does being *responsive* to sound teach or suggest a music IC to produce sound as recited in claim 5. Therefore, the combination of Chien '671 and Chien '867 fails to teach or suggest each and every element recited by claim 5. As a result, the rejection of claim 5 should be withdrawn and the claim allowed.

The amendments to the title, specification, claims, and abstract have been made to clarify certain aspects of the invention. All find support in the original specification. For example, page 2, line 15 of the specification as filed states that the vibration-activated light emitting indication apparatus "can be mounted on any type of cases." (Spec., Page 2, line 15) As a result, this amendment adds no new matter.

In view of the foregoing, Applicant respectfully requests the reconsideration and reexamination of this application and the timely allowance of the pending claims.

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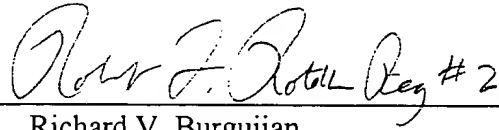
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Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: June 25, 2002

By:  Reg # 24,014
for Richard V. Burgujian
Reg. No. 31,744

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ABSTRACT

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned case can be a container with a cover, such as a DVD case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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APPENDIX TO AMENDMENT

VERSION WITH MARKINGS TO SHOW CHANGES MADE

AMENDMENTS TO THE TITLE

The title is amended as follows:

CASE WITH VIBRATION-ACTIVATED LIGHT EMITTING INDICATION

APPARATUS[VIBRATION ACTIVATED LIGHT EMITTING INDICATION APPARATUS]

AMENDMENTS TO THE SPECIFICATION

On page 1, lines 5-8 are amended as follows:

The present invention relates to a case with a light emitting indication apparatus, and in particular, to a vibration-activated indication apparatus, which is that located on the surfaces of packages or any kind of cases and emits light when [as being] touched or [shacked] shaken by a user.

On page 1, lines 10-12 are amended as follows:

Currently, the cases for containing goods can just be beautified with a logo or a figure on their surfaces or shape [on their surface and shape or with logo]. Such superficial beautification of the surface and shape of the case turns out not quite attractive.

On page 1, lines 22-25 are amended as follows:

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An object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus, which can be activated by vibrations caused by external pressing or shaking to the [apparatus] case and then shows the patterns on an indicator plate.

On page 1, lines 26-27 and continuing on page 2, lines 1-2, lines are amended as follows:

A further object of the present invention is to provide a case with a vibration-activated light emitting indication apparatus that can enhance sound and image effects of the decorated patterns on the surface of a package or any kind of cases.

On page 2, lines 3-14 are amended as follows:

To achieve the above purposes, the case with a vibration-activated light emitting indication apparatus of the present invention, [which is mounted on a case,] comprises[:] a case having a cover and a container; a vibration-activated light emitting indication apparatus, which is mounted on a surface of the case, including; an indicator plate, which is transparent and has a pattern [thereon]; a power supply; an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the [vibration caused by external pressing or shaking on the vibration-activated light emitting indication apparatus] vibrations of the case.

On page 2, lines 23-26 are amended as follows:

BRIEF DESCRIPTION OF THE [PATTERNS] FIGURES

The present invention will be described in [accidence] accordance with the accompanying figures, wherein:

Fig. 1 is a first embodiment of [the] a case with a vibration-activated light emitting indication apparatus of the present invention;

On page 3, lines 1-21 are amended as follows:

Fig. 2 is a second embodiment of [the] a case with a vibration-activated light emitting indication apparatus of the present invention; and

Fig. 3 is a block diagram of [the] a case with a vibration-activated light emitting indication apparatus of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 shows the first embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. As shown in Fig. 1, the indication apparatus of the present invention is located on a surface of a DVD [box 10] case 10, and it can be activated by the vibration caused by external act of pressing or shaking on the DVD [box 10] case 10. On the surface of the DVD [box 10] case 10, the pattern on an indicator plate 11 can be highlighted by a light that is emitted from an electroluminescent laminate. The indicator plate 11 may be made out of a transparent material with patterns intended to be shown thereon. The present invention can also have a variety of the indicator plates changing the light emitting essences of electroluminescent laminate, such as single flicking, multiple flicking, flicking frequency, different colors, and so on.

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Fig. 2 shows a second embodiment of the case with a vibration-activated light emitting indication apparatus in accordance with the present invention. An indicator plate 21 is mounted on any surfaces on a DVD [box 20] case 20, if desired.

On page 4, lines 3-9 are amended as follows:

Fig. 3 is a block diagram of the case with a vibration-activated light emitting indication apparatus of the present invention. A power supply, which includes a driving circuit and batteries, can power to electrodes of electroluminescent laminate to emit a light. Moreover, the power supply may be designed for several different power supply modes, such as consecutive power supply or intermittent power supply, to obtain different effects, such as flicking of the indicator plate.

Beginning on page 4, lines 26-30 and continuing on page 5, lines 1-9, please amend the text as follows:

Given the above, [a] the case with a vibration-activated light emitting apparatus can be obtained by combining a power supply and a main structure, which includes the case, the indicator plate, the vibration sensor IC, the electroluminescent laminate, and the inverter. The case can be a package for a variety of goods, such as a DVD [box] case, a watch case, a jewelry box, and a stationery case. Furthermore, the indicator plate can be mounted on any arbitrary surfaces of the case, such as the inside or the outside of the case. The image effect may be exhibited together with a musical effect. Also, the consecutive multicolored flicking of the electroluminescent laminate may further highlight the patterns of animals or cartoon, logos,

characters or any other features intended to be shown. The variety of changes derived from similar ideas is included in the present invention.

AMENDMENTS TO THE CLAIMS

1. [A vibration-activated light emitting indication apparatus, which is mounted on a surface of a case to increase the attractiveness of the case, comprising:

an indicator plate, which is transparent and has a pattern;

a power supply;

an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and

a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibration of the apparatus.] A case with a vibration-activated light emitting indication apparatus, comprising,

a case having a cover and a container; and

a vibration-activated light emitting indication apparatus mounted on the cover of the case,

including:

(a) an indicator plate, which is transparent and has a pattern;

(b) a power supply;

(c) an electroluminescent laminate situated beneath the indicator plate and being capable of emitting a light as powered by the power supply; and

(d) a control unit for connecting the power supply to the electroluminescent laminate when a vibration of the case is sensed.

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2. The [apparatus] case according to Claim 1, wherein the electroluminescent laminate is a laminate of single color or multi color.

3. The [apparatus] case according to Claim 1, wherein the electroluminescent laminate emits the light [at a time] continuously or emits the light intermittently.

4. The [apparatus] case according to Claim 1, wherein the control unit further comprises a vibration sensor IC and an inverter.

5. The [apparatus] case according to Claim 1, wherein the control unit further comprises a music IC to produce [a] music.

6. The [apparatus] case according to Claim 1, wherein the power supply is a battery.

7. The [apparatus] case according to Claim 1, wherein [after] a predetermined number of [plural] clock pulses [when] after the electroluminescent laminate emits the light, the control unit disconnects the power supply from the electroluminescent laminate.

8. The [apparatus] case according to Claim 1, wherein the pattern is a logo.

9. The [apparatus] case according to Claim 1, wherein the pattern is a pattern of at least one of an animal or a cartoon character.

11. The apparatus according to Claim 1, wherein the case is a DVD [box] case or CD case.

AMENDMENTS TO THE ABSTRACT

The Abstract is amended as follows:

The present invention discloses a case with a vibration-activated light emitting indication apparatus comprising a case and a light emitting indication apparatus. The light emitting indication apparatus includes an indicator plate, [: a case or a carrier; an indicator plate,] which is transparent and contains a pattern, including, for example, a logo, characters, and drawings; an electroluminescent laminate; a power supply, which powers the electroluminescent laminate; a vibration sensor IC, which senses the vibration caused by an external act of pressing or shaking on the [apparatus] case, and then controls an inverter to activate the electroluminescent laminate. The above-mentioned [apparatus] case can be a container with a cover, [may be mounted on any case,] such as a DVD [box] case, a watch box, a jewelry box and any other cases. The pattern on the transparent indicator plate can be highlighted by the light emitted from the electroluminescent laminate, achieving a vivid image such that the case is elaborately ornamented.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,151	05/25/2001	Shaw-Jong Wang	06542.0037	1452

22852 7590 03/25/2002

FINNEGAN, HENDERSON, FARABOW, GARRETT &
DUNNER LLP
1300 I STREET, NW
WASHINGTON, DC 20005

EXAMINER

LEE, GUIYOUNG

ART UNIT

PAPER NUMBER

2875

DATE MAILED: 03/25/2002



Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

MAR 28 2002

FINNEGAN, HENDERSON,
FARABOW, GARRETT & DUNNER, LLP.

Docketed 3-28-02 Attorney RVB
Case 6542.0037
Due Date 6-25-02 WEXT
Action RESPONSE
By B

MAR 29 2002

Office Action Summary

Application No.

09/864,151

Applicant(s)

WANG ET AL.

Examiner

Guiyoung Lee

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on ____.

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-13 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) ☐ Claim(s) ____ is/are allowed.

6) ☒ Claim(s) 1-13 is/are rejected.

7) ☐ Claim(s) ____ is/are objected to.

8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.

4) ☐ Interview Summary (PTO-413) Paper No(s). ____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Chien (USPT 5,836,671).

Re claim 1: Chien'671 teaches a vibration-activated light emitting indication apparatus having,

- an indicator plate, which is transparent and has a pattern (Fig. 6);
- a power supply (303);
- an electroluminescent laminate (602), which is situated beneath the indicator plate;
- a control unit (403), connected to the power supply and the electroluminescent laminate.

Re claim 2: Chien'671 discloses a multi color electroluminescent laminate (col. 3, lines – 16).

Re claims 3 and 7: Chien'671 teaches that the electroluminescent laminate emits the light at a time or emits the light intermittently (col. 3, lines 19-20).

Re claims 4-5: Chien'671 discloses a vibration sensor IC (col. 4, lines 13-15), an inverter.

Re claim6: Chien'671 teaches a battery.

Re claims 8-9: Chien'671 teaches that the pattern is a logo, animal or cartoon character (col. 3, lines 18-20).

Re claims 10-13; Chien'671 teaches that the case is a package box, a DVD box, or bag or a toy case (col. 25-31).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chien'671 as applied to claim1 above, and further in view of Chien (USPT 6,082,867).

Re claim 7: Considering the limitations of claim 7 that is a control unit having a music IC, although Chien'671 does not disclose a music IC, Chien'867 teaches and motivates the use of a music IC, saying that "The changing color features of the three-dimensional electro-luminescent lighting element can be utilized in this application by making the color change responsive to sound, hear, humidity, pressure or weight, music, or any other desired condition (col. 3, lines 40-45)."

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Burrows (USPT 6,271,631) discloses an EL lamp having a logo.

Chien (USPT 5,833,508) shows a multi-color illuminated panel having a decorative sheet.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Guiyoung Lee** whose telephone number is **(703) 308-8567**. The examiner can normally be reached between the hours of 5:30AM to 2:00PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea, can be reached on (703) 305-4939. The fax phone number for this Group is (703)308-7722, (703)308-7724, or (703)308-7382.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [**Guiyoung.lee@uspto.gov**].

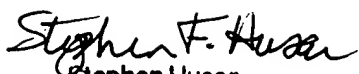
All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

GYL

GAU2875

March/19/2002


Stephen Husar
Primary Examiner



Notice of References Cited

Application/Control No.

09/864,151

Applicant(s)/Patent Under

Reexamination

WANG ET AL.

Examiner

Guiyoung Lee

Art Unit

2875

Page 1 of 1

U.S. PATENT DOCUMENTS

		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,836,671	11-1998	Chien, Tseng Lu	362/103
	B	US-5,833,508	11-1998	Chien, Tseng-Lu	445/24
	C	US-6,082,867	07-2000	Chien, Tseng-Lu	313/512
	D	US-6,271,631	08-2001	Burrows, Kenneth	313/511
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Customer Number 22,852
Attorney Docket No. 06542.0037

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Shaw-Jong WANG et al.)
Serial No.: 09/864,151) Group Art Unit: 1734
Filed: May 25, 2001)
For: VIBRATION-ACTIVATED LIGHT)
EMITTING INDICATION)
APPARATUS)

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

CLAIM FOR PRIORITY

Under the provisions of Section 119 of 35 U.S.C., applicants hereby claim the benefit of the filing date of Republic of China Utility Model Application No. 089222763, filed December 29, 2000, for the above-identified United States Patent Application.

In support of applicants' claim for priority, filed herewith is one certified copy of the above.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

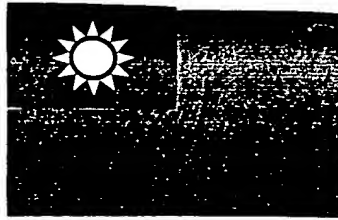
Dated: March 4, 2002

By: 

Richard V. Burgujian
Reg. No. 31,744

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中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this
office of the application as originally filed which is identified hereinafter.

申請日：西元 2000 年 12 月 29 日
Application Date

申請案號：089222763
Application No.

申請人：銖德科技股份有限公司
Applicant(s)

局長
Director General

陳明邦

發文日期：西元 2001 年 8 月
Issue Date

發文字號：09011012
Serial No.



RVB/LWD
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DUNNER, LLP - MR. ERNEST F. CHAPMAN
1300 I STREET, N.W.
WASHINGTON, DC 20005-3315

AUG 14 2001

FINNEGAN, HENDERSON,
FARABOW, GARRETT & DUNNER, LLP.

6542.0037

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/25/2001

REEL/FRAME: 011840/0854
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WANG, SHAW-JONG

DOC DATE: 05/14/2001

ASSIGNOR:

SHEN, JOSEPH

DOC DATE: 05/14/2001

ASSIGNOR:

WU, CHIEN-HUA

DOC DATE: 05/14/2001

ASSIGNOR:

YU, CHAREN

DOC DATE: 05/15/2001

ASSIGNEE:

RITEK CORPORATION
NO. 42, KUANGFU N. RD.
HSINCHU INDUSTRY DISTRICT
HU KO, HSINCHU HSIEN, TAIWAN R.O.C.

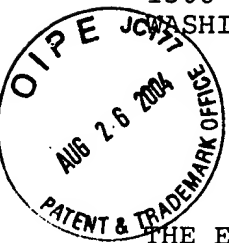
SERIAL NUMBER: 09864151

PATENT NUMBER:

FILING DATE: 05/25/2001
ISSUE DATE:

AUG 15 2001

[Handwritten signature]



011840/0854 PAGE 2

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-01-2001



EET

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 06542.0037
CUSTOMER NUMBER: 22,852

To the Honorable Commissioner of Patents
Please record the attached original documents or copy thereof.

101735069

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies): *05/25/01*
1. Shaw-Jong WANG
2. Joseph SHEN
3. Chien-Hua WU
4. Charen YU

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 1.- 3. May 14, 2001; 4. May 15, 2001

2. Name and address of receiving party(ies):

Name: RITEK CORPORATION

Internal Address:

Street Address: No. 42, Kuangfu N. Rd.,
Hsinchu Industry District, Hu Ko,
Hsinchu Hsien, Taiwan, R.O.C.

City:

State:

Zip Code:

Additional name(s) & Address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: *May 14, 2001 and May 15, 2001*

A. Patent Application Number(s):

05/29/2001 JADD01 00000019 09864151

02 FC:581

40.00 OP

Additional numbers attached? ☐ Yes ☒ No

B. Patent Number(s):

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. Ernest F. Chapman

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT
& DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington

State: DC Zip: 20005-3315

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account) ☐

Authorized to be charged to deposit account

8. Deposit account number: 06-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard V. Burgujian

Reg. No. 31,744

Signature

May 25, 2001

Date

Total number of pages including cover sheet, attachments and documents: 3



A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____, 19____ (Serial No. _____); and

WHEREAS, RITEK CORPORATION
a corporation of Taiwan, R.O.C.
address is No. 42, Kuangfu N. Rd., Hsinchu Industry District, Hu Ko, Hsinchu Hsien, Taiwan, R.O.C., whose post office
(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

- | | | |
|---|------------------------|-------------------|
| 1. Full Name of Sole or First Assignor | : Assignor's Signature | : Date |
| <u>Shaw-Jong Wang</u> | <u>Shaw-Jong Wang</u> | <u>7/16/2001</u> |
| Address | | : Citizenship |
| <u>4Fl.-1, No. 22, Lane 376, Sec. 1, Kuang-Fu Rd., Hsinchu, Taiwan, R.O.C.</u> | | <u>R.O.C.</u> |
| 2. Full Name of Second Assignor | : Assignor's Signature | : Date |
| <u>Joseph Shen</u> | <u>Joseph Shen</u> | <u>2001.05.14</u> |
| Address | | : Citizenship |
| <u>No. 14, Alley 45, Lane 143, Hua Hsin St., Chung Ho, Taipei, Taiwan, R.O.C.</u> | | <u>R.O.C.</u> |
| 3. Full Name of Third Assignor | : Assignor's Signature | : Date |
| <u>Chien-Hua Wu</u> | <u>Chien-Hua Wu</u> | <u>2001.05.16</u> |
| Address | | : Citizenship |
| <u>No. 68-1, Lin 7, Shan Sha Li, Tou Fang, Miaoli Hsien, Taiwan, R.O.C.</u> | | <u>R.O.C.</u> |

4. Full Name of Fourth Assignor : Assignor's Signature : Date
 Charen Yu : : 15/May/2001
 Address : :
 9th Fl., No. 218-4, Sec. 4, Chung Hsiao E. Rd., Taipei, Taiwan, R.O.C. : Citizenship : R.O.C.
5. Full Name of Fifth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
6. Full Name of Sixth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
7. Full Name of Seventh Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
8. Full Name of Eighth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
9. Full Name of Ninth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
10. Full Name of Tenth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
11. Full Name of Eleventh Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship
12. Full Name of Twelfth Assignor : Assignor's Signature : Date
 Address : :
 : Citizenship



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UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/864,151	05/25/2001	1734	710	06542.0037	2	13	1

CONFIRMATION NO. 1452

FILING RECEIPT



OC00000006336057



Innegan, Henderson, Farabow,
Garrett & Dunner, L.L.P.
1300 I Street, N.W.
Washington, DC 20005-3315

JUL 25 2001

Date Mailed: 07/24/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Shaw-Jong Wang, Hsinchu, TAIWAN;
Joseph Shen, Taipei, TAIWAN;
Chien-Hua Wu, Miao Li Hsien, TAIWAN;
Charen Yu, Taipei, TAIWAN;

Assignment For Published Patent Application

Ritek Corporation;

JUL 25 2001

Domestic Priority data as claimed by applicant

Foreign Applications

TAIWAN 89222763 12/29/2000

If Required, Foreign Filing License Granted 07/24/2001

Projected Publication Date: 07/04/2002

Non-Publication Request: No

Early Publication Request: No

Title

Vibration-activated light emitting indication apparatus

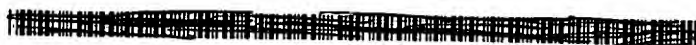
Preliminary Class

156

Data entry by : MARMOL, MARIA

Team : OIPE

Date: 07/24/2001



**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
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May 25, 2001

ATTORNEY DOCKET NO.: 06542.0037
CUSTOMER NUMBER: 22,852

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

New U.S. Patent Application
Title: VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS
Inventors: Shaw-Jong WANG; Joseph SHEN; Chien-Hua WU; and Charen YU

Sir:

We enclose the following papers for filing in the United States Patent and Trademark Office in connection with the above patent application.

1. Application - 8 pages, including 1 independent claim and 13 claims total.
2. Drawings - 2 sheets of formal drawings containing 3 figures.
3. Declaration and Power of Attorney.
4. Recordation Form Cover Sheet and Assignment to Ritek Corporation.
5. The filing fee is calculated as follows:

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L. L. P.

Assistant Commissioner of Patents

May 25, 2001

Page 2

					\$710	\$ 710.00
Basic Application Filing Fee	Number of Claims		Basic	Extra Claims		
Total Claims	13	-	20	0	x \$18	
Independent Claims	1	-	3	0	x \$80	
[] Presentation of Multiple Dep. Claim(s)					+\$270	
					Subtotal	\$ 710.00
					Reduction by 1/2 if small entity	-
					TOTAL APPLICATION FILING FEE	\$ 710.00

6. A check for \$750.00 is enclosed. The fee includes:

\$710.00 filing fee; and

\$40.00 Assignment recordation fee.

Applicants claim the right to priority based on R.O.C. Application No. 89222763, filed December 29, 2000.

Please address all correspondence with respect to this application to:

Finnegan, Henderson, Farabow,
Garrett & Dunner, L.L.P.
1300 I Street, N.W.
Washington, D.C. 20005-3315

Please accord this application a serial number and filing date and record and return the Assignment to the undersigned.

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Assistant Commissioner of Patents

May 25, 2001

Page 3

The Commissioner is hereby authorized to charge any additional filing fees due and any other fees due under 37 C.F.R. § 1.16 or § 1.17 during the pendency of this application to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: 

Richard V. Burgujian
Reg. No. 31,744

RVB/FPD/peg
Enclosures

To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):

1. Shaw-Jong WANG
2. Joseph SHEN
3. Chien-Hua WU
4. Charen YU

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: 1.- 3. May 14, 2001; 4. May 15, 2001

2. Name and address of receiving party(ies):

Name: RITEK CORPORATION

Internal Address:

Street Address: No. 42, Kuangfu N. Rd.,
Hsinchu Industry District, Hu Ko,
Hsinchu Hsien, Taiwan, R.O.C.

City:

State:

Zip Code:

Additional name(s) & Address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: May 14, 2001 and May 15, 2001

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. Ernest F. Chapman

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT
& DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington

State: DC Zip: 20005-3315

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40
☒

Enclosed (Please charge deficiency to deposit account)
☐

Authorized to be charged to deposit account

8. Deposit account number: 06-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard V. Burgujian

Reg. No. 31,744

Signature

May 25, 2001

Date

Total number of pages including cover sheet, attachments and documents: 3



VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

5 The present invention relates to a light emitting indication apparatus, and in particular, to a vibration-activated indication apparatus, which is that located on the surfaces of packages or any kind of cases and emits light as being touched or shaken by a user.

DESCRIPTION OF PRIOR ART

10 Currently, the cases for containing goods can just be beautified on their surface and shape or with logo. Such superficial beautification of the surface and shape of the case turns out not quite attractive.

 Moreover, as logo or advertisement on the surface of case for goods is dull, it is very difficult to make a strong impression on the consumers and attract them to purchase the goods. By combining technology of electroluminescent laminate with image and sound effects to lively show logo, pattern and character on a flat plane, the cases for goods can not only become vivid but also stimulate the customers' will to purchase the goods. Thus, the brand of the goods is very impressive and gains a better reputation.

SUMMARY OF THE INVENTION

25 An object of the present invention is to provide a vibration-activated light emitting indication apparatus, which can be activated by vibrations caused by external pressing or shaking to the apparatus and then shows the patterns on an indicator plate.

 A further object of the present invention is to provide a vibration-activated light emitting indication apparatus that can enhance

sound and image effects of the decorated patterns on the surface of a package or any kind of cases.

To achieve the above purposes, the vibration-activated light emitting indication apparatus of the present invention, which is mounted on a case,
5 comprises:

an indicator plate, which is transparent and has a pattern thereon;

a power supply;

an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and

10 a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibration caused by external pressing or shaking on the vibration-activated light emitting indication apparatus.

15 The apparatus described above can be mounted on any kind of cases, such as a DVD case, a bag, a jewelry box, a toy box, etc. According to the present invention, a vibration sensor IC activates the electroluminescent laminate by sensing the external environment. The light emitted from the electroluminescent laminate passes through the transparent indicator plate,
20 highlighting the pattern on the indicator plate. Thus, the goods are elaborately beautified.

BRIEF DESCRIPTION OF THE PATTERNS

The present invention will be described in accordance with the accompanying figures, wherein:

25 Fig. 1 is a first embodiment of the vibration-activated light emitting indication apparatus of the present invention;

Fig. 2 is a second embodiment of the vibration-activated light emitting indication apparatus of the present invention; and

Fig. 3 is a block diagram of the vibration-activated light emitting indication apparatus of the present invention.

5 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

Fig. 1 shows the first embodiment of the vibration-activated light emitting indication apparatus in accordance with the present invention. As shown in Fig. 1, the apparatus of the present invention is located on a surface of a DVD box 10, and it can be activated by the vibration caused
10 by external act of pressing or shaking on the DVD box 10. On the surface of the DVD box 10, the pattern on an indicator plate 11 can be highlighted by a light that is emitted from an electroluminescent laminate. The indicator plate 11 may be made out of a transparent material with patterns intended to be shown thereon. The present invention can also have a
15 variety of the indicator plates changing the light emitting essences of electroluminescent laminate, such as single flicking, multiple flicking, flicking frequency, different colors, and so on.

Fig. 2 shows a second embodiment of the vibration-activated light emitting indication apparatus in accordance with the present invention.
20 An indicator plate 21 is mounted on any surfaces on a DVD box 20, if desired.

As shown in Fig. 2, a vibration sensor IC and a power supply 22 are always placed inside the box 20. A converter in the vibration sensor IC is to control the electroluminescent laminate 31. The vibration sensor IC
25 can sense the vibration of the box 20 caused by external act of pressing or shaking and thereby activates the electroluminescent laminate 31. According to another embodiment, a music IC can also be connected to the vibration sensor IC so that the box 20 can further sound a music in addition to the vivid image formed by the electroluminescent laminates 31. The

power supply 22 is provided with D.C. batteries to supply power to the apparatus.

Fig. 3 is a block diagram of the vibration-activated light emitting indication apparatus of the present invention. A power supply, which includes a driving circuit and batteries, can power to electrodes of electroluminescent laminate to emit a light. Moreover, the power supply may be designed for several different power supply modes, such as consecutive power supply or intermittent power supply, to obtain different effects, such as flicking of the indicator plate.

The control unit 32 contains a vibration sensor IC and an inverter which is used as a switch to activate the electroluminescent laminate 31. After sensing vibration caused by external act of vibration of the case, the inverted switches to an "on" state to activate the electroluminescent laminate 31. If a musical effect is needed, the music IC can be connected to control the musical effect when the vibration sensor IC is activated. After plural clock pulses after the electroluminescent laminate is activated, the control unit 32 disconnects the power supply from the electroluminescent laminate 31.

The electroluminescent laminate 31 essentially consists of a lamination of a transparent substrate, a transparent electrode layer, a fluorescent layer, and a back electrode layer. When the transparent electrode layer and the back electrode layer are biased by a potential, the fluorescent layer emits a light and the light will pass through the transparent substrate. The electroluminescent laminate may be designed in accordance with the need of the indicator plate. For example, the transparent substrate may be a multicolored layer to enrich the color effect.

Given the above, a vibration-activated light emitting indication apparatus can be obtained by combining a power supply and a main structure, which includes the case, the indicator plate, the vibration sensor IC, the electroluminescent laminate, and the inverter. The case can be a

package for a variety of goods, such as a DVD box, a watch case, a jewelry box, and a stationery case. Furthermore, the indicator plate can be mounted on any arbitrary surfaces of the case, such as the inside or the outside of the case. The image effect may be exhibited together with a musical effect. Also, the consecutive multicolored flicking of the electroluminescent laminate may further highlight the patterns of animals or cartoon, logos, characters or any other features intended to be shown. The variety of changes derived from similar ideas is included in the present invention.

Although the present invention has been disclosed in terms of preferred embodiments, the disclosure is not intended to limit the present invention. The present invention still can be modified, varied by persons skilled in the art without departing from the scope and spirit of the present invention which are determined by the claims below.

WHAT IS CLAIMED IS

1. A vibration-activated light emitting indication apparatus, which is mounted on a surface of a case to increase the attractiveness of the case, comprising:

5 an indicator plate, which is transparent and has a pattern;

a power supply;

an electroluminescent laminate, which is situated beneath the indicator plate and can emit a light as powered by the power supply; and

10 a control unit, connected to the power supply and the electroluminescent laminate, wherein the control unit connects the power supply to the electroluminescent laminate when it senses the vibration of the apparatus.

2. The apparatus according to Claim 1, wherein the electroluminescent laminate is a laminate of single color or multi color.

15 3. The apparatus according to Claim 1, wherein the electroluminescent laminate emits the light at a time or emits the light intermittently.

4. The apparatus according to Claim 1, wherein the control unit further comprises a vibration sensor IC and an inverter.

20 5. The apparatus according to Claim 1, wherein the control unit further comprises a music IC to produce a music.

6. The apparatus according to Claim 1, wherein the power supply is a battery.

25 7. The apparatus according to Claim 1, wherein after plural clock pulses when the electroluminescent laminate emits the light, the

control unit disconnects the power supply from the electroluminescent laminate.

8. The apparatus according to Claim 1, wherein the pattern is a logo.

5 9. The apparatus according to Claim 1, wherein the pattern is a pattern of animal or cartoon character.

10. The apparatus according to Claim 1, wherein the case is a package box.

10 11. The apparatus according to Claim 1, wherein the case is a DVD box.

12. The apparatus according to 1, wherein the casing is a bag.

13. The apparatus according to 1, wherein the casing is a toy case.

VIBRATION-ACTIVATED LIGHT EMITTING INDICATION**APPARATUS****ABSTRACT**

5 The present invention discloses a vibration-activated light emitting
indication apparatus comprising: a case or a carrier; an indicator plate,
which is transparent and contains a pattern, including, for example, a logo,
characters, and drawings; an electroluminescent laminate; a power supply,
which powers the electroluminescent laminate; a vibration sensor IC,
10 which senses the vibration caused by an external act of pressing or shaking
on the apparatus, and then controls an inverter to activate the
electroluminescent laminate. The above-mentioned apparatus may be
mounted on any case, such as a DVD box, a watch box, a jewelry box and
any other cases. The pattern on the transparent indicator plate can be
15 highlighted by the light emitted from the electroluminescent laminate,
achieving a vivid image such that the case is elaborately ornamented.

DECLARATION AND POWER OF ATTORNEY

ney Docket No. _____

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS**

the specification of which ☐ is attached and/or ☐ was filed on _____ as United States Application Serial No. _____ or PCT International Application No. _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT international application(s) designating at least one country other than the United States, listed below and have also identified below, any foreign application(s) for patent or inventor's certificate, or any PCT International application(s) having a filing date before that of the application(s) of which priority is claimed:

Country	Application Number	Date of Filing	Priority Claimed Under 35 U.S.C. 119
R.O.C.	89222763	29/12/2000	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Date of Filing

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT International filing date of this application:

Application Number	Date of Filing	Status (Patented, Pending, Abandoned)

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Dirk D. Thomas, Reg. No. 32,600; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanhon Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Hom, Reg. No. 40,266; and Linda A. Wadler, Reg. No. 33,218; and _____ Please address all correspondence to FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. 1300 I Street, N.W., Washington, D.C. 20005, Telephone No. (202) 408-4000.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full Name of First Inventor Shaw-Jong Wang	Inventor's Signature <i>Shaw-Jong Wang</i>	Date 05/14/2001
Residence 4Fl.-1, No. 22, Lane 376, Sec. 1, Kuang-Fu Rd., Hsinchu, Taiwan, R.O.C.		Citizenship R.O.C.
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Listing of Inventors Continued on Page 2 hereof. ☐ Yes ☐ No

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

FHFGD 4/97

Listing of Inventors Continued From Page 1 hereof.

Attorney Docket No.

Full Name of Second Inventor Joseph Shen		Inventor's Signature <i>Joseph Shen</i>	Date 2001.05.14
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Post Office Address Same as above			
Full Name of Third Inventor Chien-Hua Wu		Inventor's Signature <i>Chien-Hua Wu</i>	Date 2001.05.14
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Full Name of Fourth Inventor Charen Yu		Inventor's Signature <i>Charen Yu</i>	Date 15/May/2001
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Residence		Citizenship	
Post Office Address			
Full Name of Sixth Inventor		Inventor's Signature	Date
Residence		Citizenship	
Post Office Address			
Full Name of Seventh Inventor		Inventor's Signature	Date
Residence		Citizenship	
Post Office Address			
Full Name of Eighth Inventor		Inventor's Signature	Date
Residence		Citizenship	
Post Office Address			
Full Name of Ninth Inventor		Inventor's Signature	Date
Residence		Citizenship	
Post Office Address			
Full Name of Tenth Inventor		Inventor's Signature	Date
Residence		Citizenship	
Post Office Address			

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

VIBRATION-ACTIVATED LIGHT EMITTING INDICATION APPARATUS

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____, 19____ (Serial No. _____); and

WHEREAS, RITEK CORPORATION a corporation of Taiwan, R.O.C. address is No. 42, Kuangfu N. Rd., Hsinchu Industry District, Hu Ko, Hsinchu Hsien, Taiwan, R.O.C., whose post office (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

- Full Name of Sole or First Assignor : Shaw-Jong Wang : Date 5/16/2001
Address : 4Fl.-1, No. 22, Lane 376, Sec. 1, Kuang-Fu Rd., Hsinchu, Taiwan, R.O.C. : Citizenship R.O.C.
- Full Name of Second Assignor : Joseph Shen : Date 2001.5.16
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- Full Name of Third Assignor : Chien-Hua Wu : Date 2001.05.16
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4. Full Name of Fourth Assignor
Charen Yu

: Assignor's Signature

: Date

15/May/2001

Address

: Citizenship

R.O.C.

5. Full Name of Fifth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

6. Full Name of Sixth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

7. Full Name of Seventh Assignor

: Assignor's Signature

: Date

Address

: Citizenship

8. Full Name of Eighth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

9. Full Name of Ninth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

10. Full Name of Tenth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

11. Full Name of Eleventh Assignor

: Assignor's Signature

: Date

Address

: Citizenship

12. Full Name of Twelfth Assignor

: Assignor's Signature

: Date

Address

: Citizenship

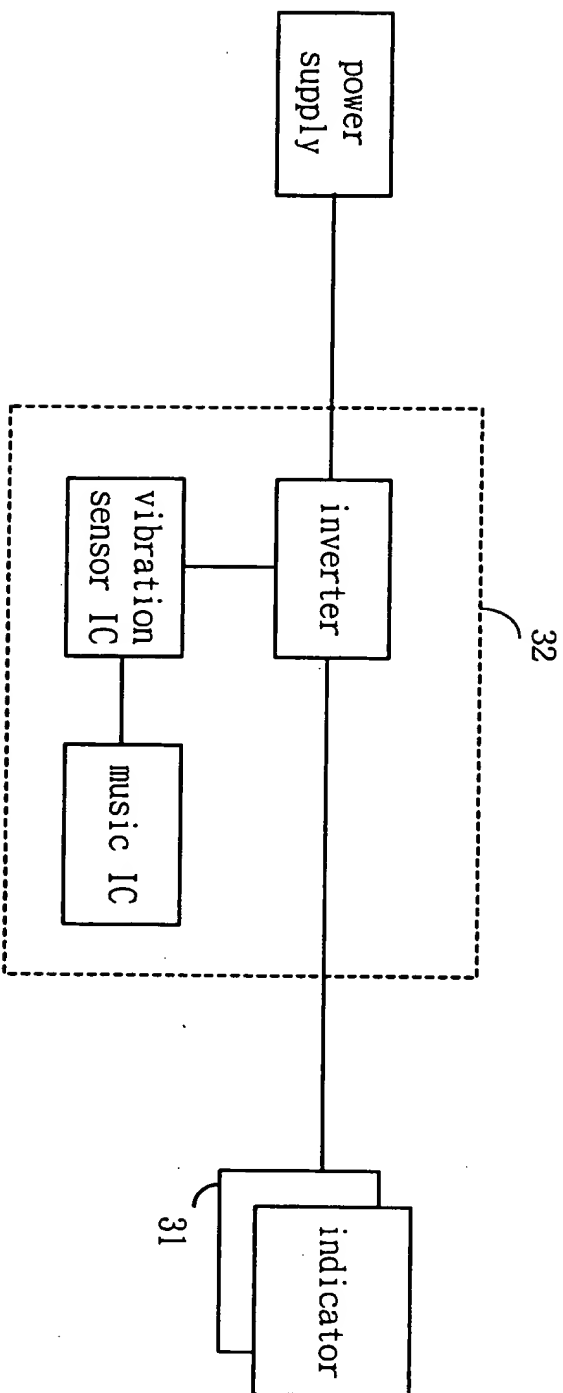


Figure 3

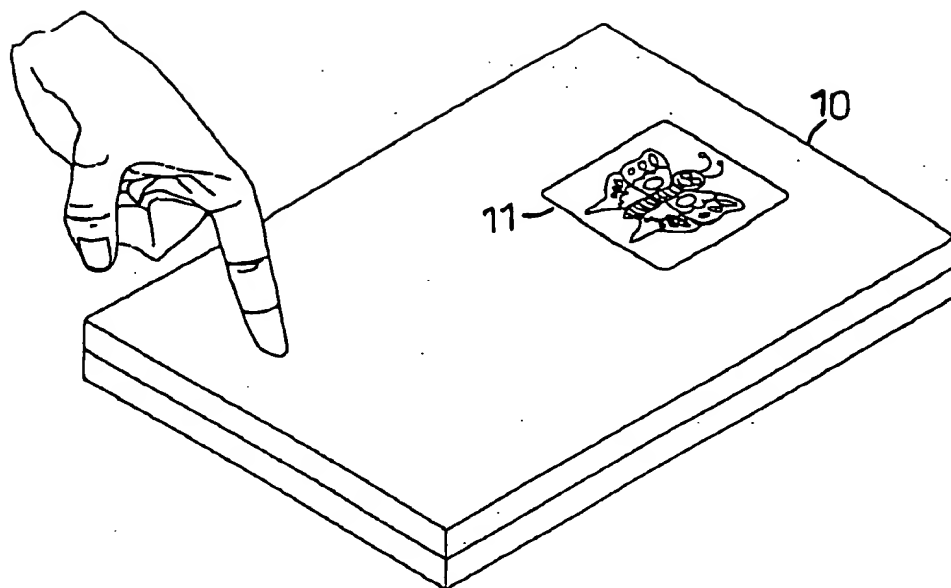


FIG. 1

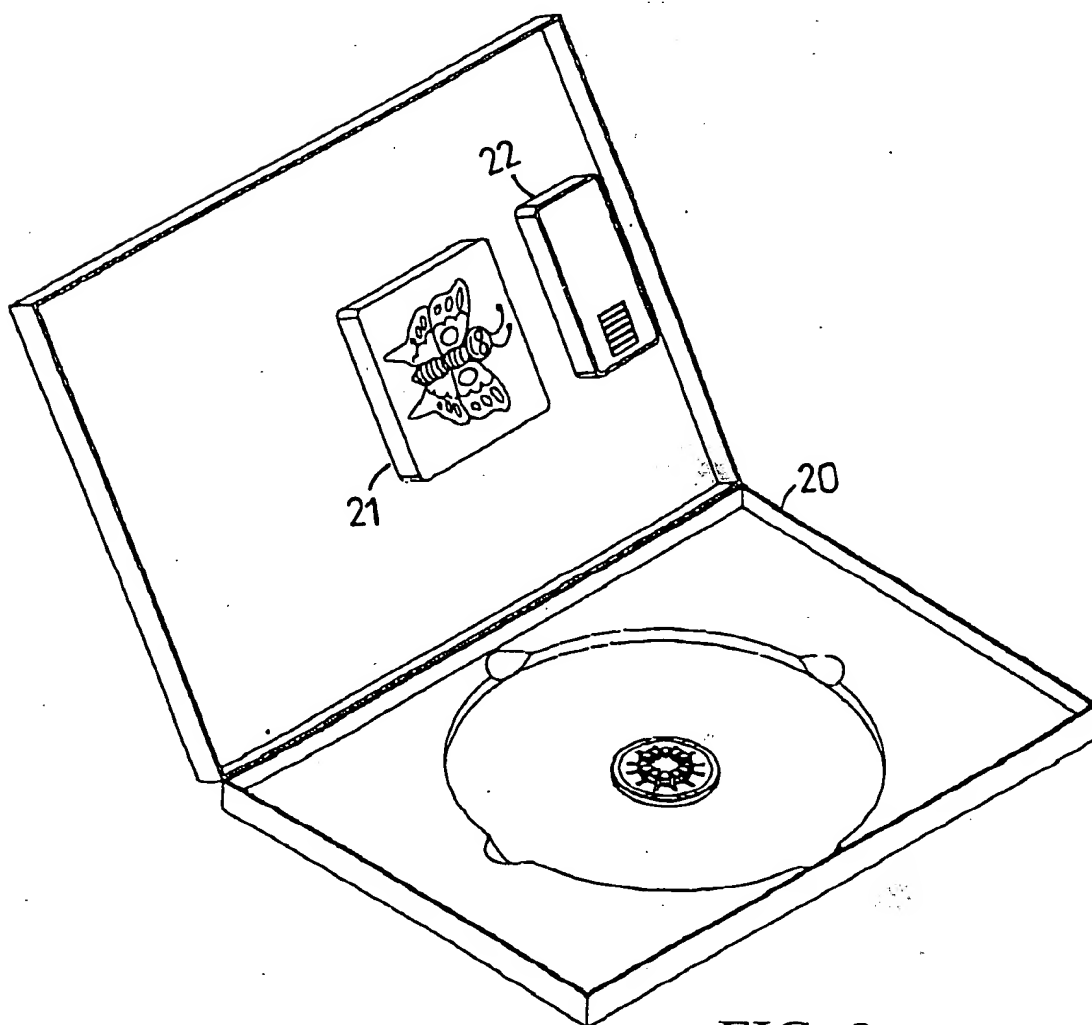


FIG. 2